



OFFICE OF
RIVER PROTECTION
United States Department of Energy

Hanford Advisory Board

Tank Waste Committee

Double-Shell Tank AY-102 Update

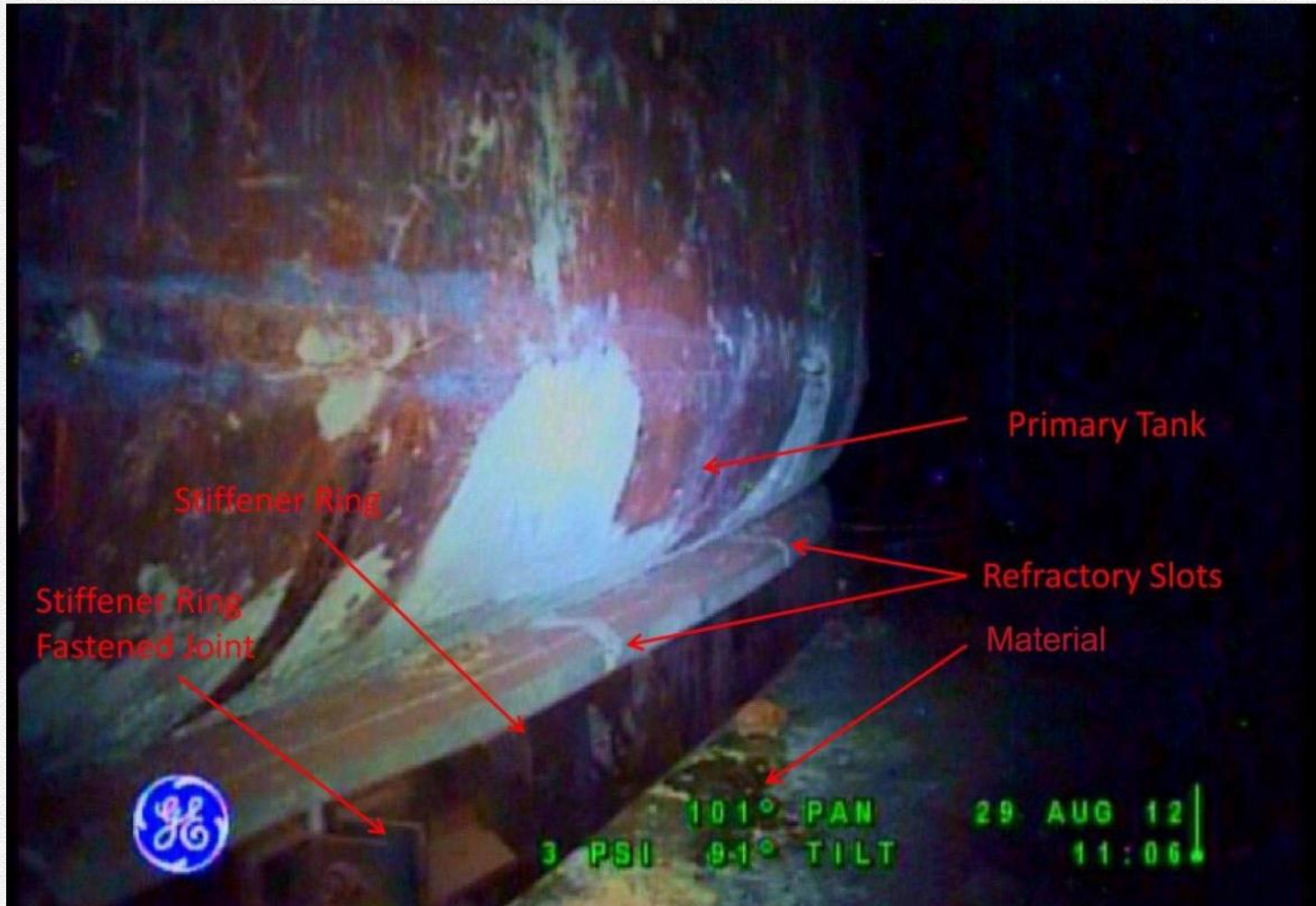
Reggie Eakins Jr., P.E., Technical Program Manager

Presented by: U.S. Department of Energy, Office of River Protection, Tank Farms Project

December 9, 2015

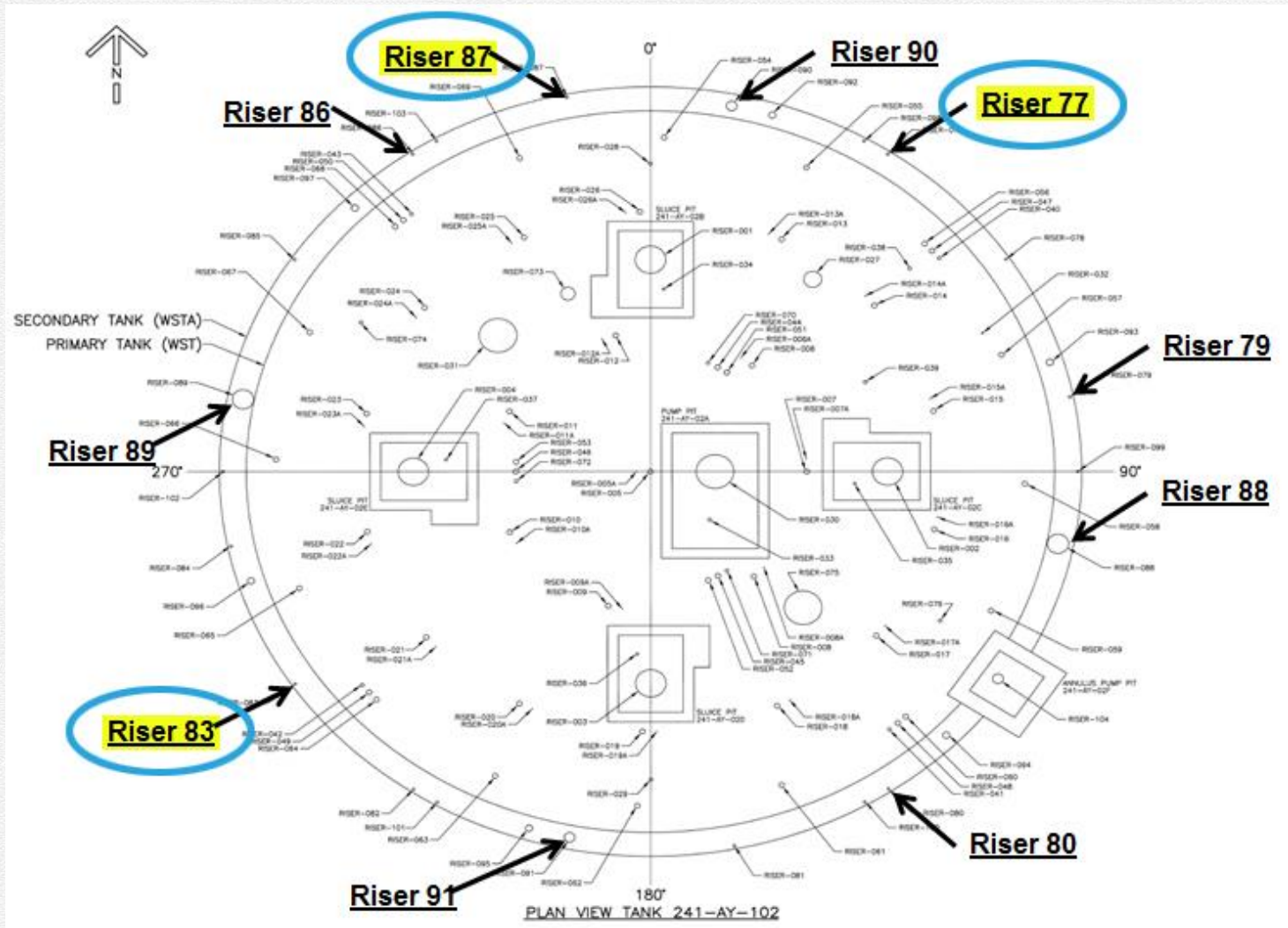


Overview of region viewed from Riser 83 – August 2012



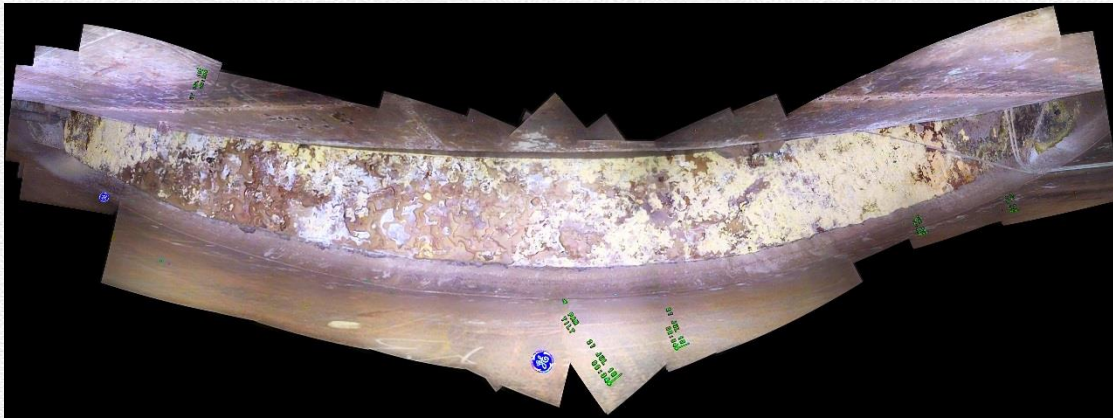


AY-102 riser locations

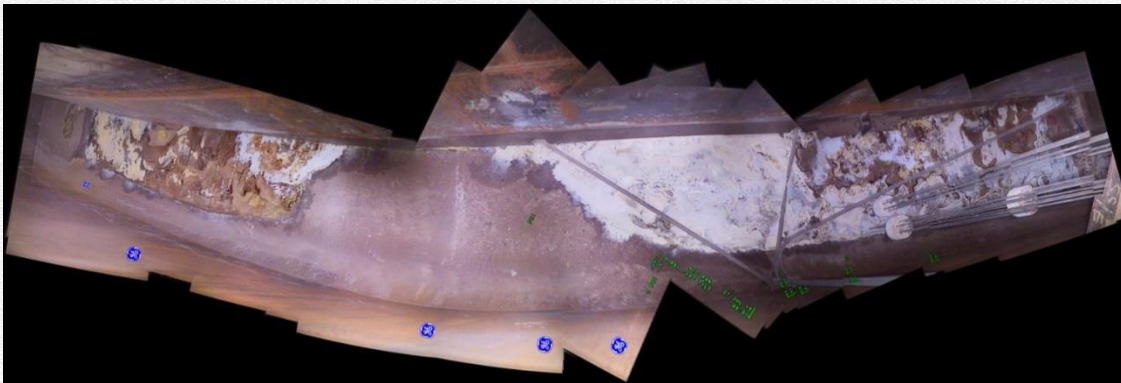




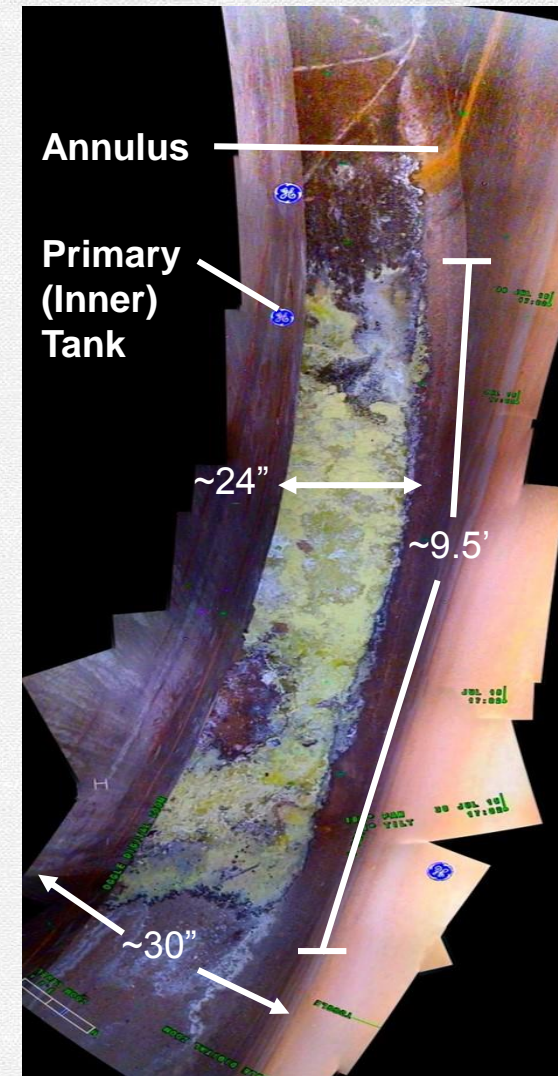
View of materials through risers



Riser 87



Riser 77



Riser 83



Where are we now?

Complete procurement, construction, and installation of all equipment necessary for waste removal, and begin retrieving supernatant from Tank 241-AY-102 no later than March 4, 2016.

Scope	Status as of 10/2015	Schedule									
		FY 2014			FY 2015				FY 2016		
Engineering and Design	100%										
Procurement	90%										
Construction & Installation	85%										
Commissioning	20%										





Splitter box receipt and installation (July 2015)





First standard sluicer installed into Riser AY02B – July 2015





Procurement of pit piping jumpers – October 2015

Pit piping jumpers as delivered from the vendor, received, and ready for installation in the AY-02A and AP-02A central pump pits. Piping jumpers connect the pumps and slurry distributor to the AY-102 hose in hose transfer lines, and DST to DST transfer piping system.





Removal of AP-02A mixer pump – October 2015





Installation of annulus pump – October 2015



The annulus pump was delivered at the AY Farm and installed in the AY-02F pit on October 28, 2015





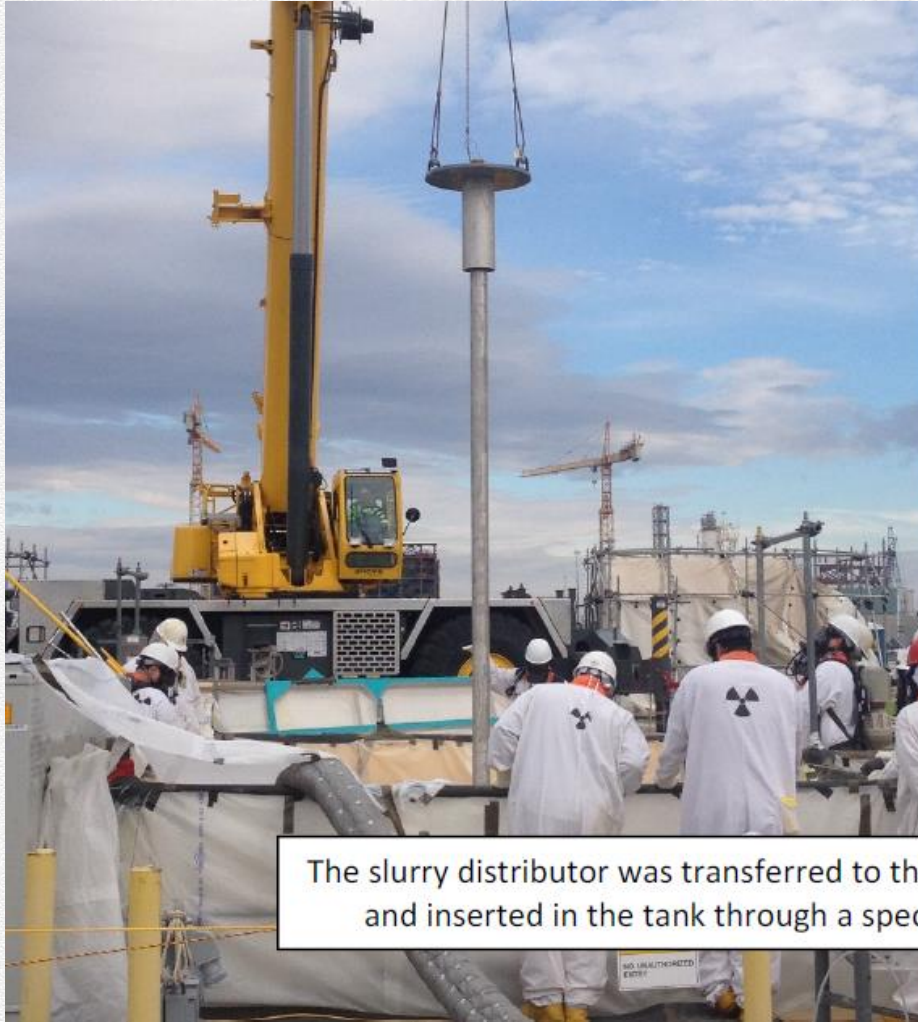
Supernatant pump installation



The AP-02A supernatant pump was lifted out of its shipping and storage container, and tilted to a vertical hanging position using a two crane lift



Installation of slurry distributor



The slurry distributor was transferred to the AP-02A pit and inserted in the tank through a specific riser





POR483 electrical rack install – November 2015





Inter-farm electrical conduit installation – November 2015







Backup Slides





AY-102 – construction sequence

